



GREEN VALLEY AND VICINITY DUST ENTRAINMENT RISK WIND FORECAST

ISSUED Tuesday, July 5, 2016

Three-day weather outlook:

A relatively quiet weather pattern will persist over Arizona through this week. In general, Green Valley will see southwesterly winds each day, peaking in strength in the afternoon. However, thunderstorms are looking possible in southeast Arizona Wednesday afternoon. There is thus a potential for storm outflows to impact Green Valley. Currently, high resolution models are showing outflows coming from the east. Overall, the risk for dust from the tailing piles west of Green Valley is Low through Friday. –M.Graves

	<u>WINDS</u>	<u>ENTRAINMENT RISK</u>
Day 1: Wed. 7/6/2016	Southwesterly winds 5-10 mph; gusty winds possible in the afternoon with storms.	LOW
Day 2: Thu. 7/7/2016	Southwesterly winds 5-10 mph.	LOW
Day 3: Fri. 7/8/2016	Southwesterly winds 5-10 mph.	LOW

PM-10 & PM-2.5 (PARTICLES)

PM-10 (COARSE PARTICLES):

Description – The term “particulate matter” (PM) includes both solid particles and liquid droplets found in air. Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM. Particles less than 10 micrometers in diameter tend to pose the greatest health concern because they can be inhaled into and accumulate in the respiratory system. Particles with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

Potential health impacts – PM can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases, such as asthma and chronic bronchitis.

Exposure reduction measures – During high-wind or other events that prompt a forecasted **MODERATE** or **HIGH** risk of transported dust over the Green Valley area, sensitive persons should remain indoors and close windows and doors.

Units of measurement – Micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Updated 5/6/2016

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